

HIBBING TACONITE COMPANY
Managed by Cliffs Mining Company

4950 County Highway 5 North, P.O. Box 589, Hibbing, MN 55746-0589 P 218.262.5950 clevelandcliffs.com

July 26, 2018

Regional Administrator Air and Radiation Division US EPA, Region 5 (A-18J) 77 West Jackson Boulevard Chicago, IL 60604 R5airenforcement@epa.gov

Re:

Hibbing Taconite Company's Quarter 2 2018

**Excess Emissions & Monitoring Performance Report** 

Permit Number 13700061

To Whom It May Concern:

Hibbing Taconite Company (HTC) is subject to the 2016 Revision to 2013 Taconite Federal Implementation Plan Establishing BART for Taconite Plants (FIP) which requires the installation of Continuous Emission Monitors (CEMS) to monitor nitrogen oxides ( $NO_x$ ) and sulfur dioxide ( $SO_2$ ). This submittal satisfies the requirements of 40 CFR 52.1235(e)(7).

Per 40 CFR 52.1235(c)(4)(v), HTC is to provide a report of each performance evaluation and QA/QC check within 60 days of completion. The most recent performance evaluation results were submitted to the EPA on May 10<sup>th</sup>, 2018 from an audit performed during April 2018. A summary of the results are attached in Attachment A. During the reporting period, there were no out-of-control periods from the daily calibration drift assessments.

HTC does not have a limit in effect at this time associated with the  $NO_x$  CEMS, therefore the proposed  $NO_x$  limit listed in the FIP is not yet enforceable. The initial  $SO_2$  limit came into effect during the  $1^{st}$  Quarter 2017 reporting period and was revised on April 11, 2018 to 347.4 lbs  $SO_2$ /hr. Data prior to this revised limit was compared against the previous limit of 247.8 lbs  $SO_2$ /hr. Attached is HTC's Quarterly Excess Emissions and Monitoring System Performance Report. Considering that HTC's  $NO_x$  limit is not yet enforceable, HTC's report will contain a zero (0) in the boxes related to excess emission events. Periods of downtime that occurred during this reporting quarter are listed by monitor in the attached report.

Please contact Julie Lucas at (218) 262-6856 or <u>julie.lucas@clevelandcliffs.com</u> if you have any questions regarding this report.

I certify, based on the information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Sincerely,

Edward LaTendresse General Manager

Cc:

Julie Lucas, HTC

Jason Aagenes, Cleveland Cliffs

Edward Laberd

Attachment A: Quality Control Reporting
Relative Accuracy Test Audit Results
Cylinder Gas Audit Results

					RATA'	S			
Emission Unit (EU)	Stack Vent (SV)	EU Description	Monitor	Pollutant	Audit Date	Results (%)	Next Test Due	Pass/Fail	Comments
	021	Furnace Line One,	No MR	NO <sub>x</sub>	7/24/2017	1.3	3rd Quarter, 2018	Pass	Results less than 20%
		Stack 1	INO IVIN	SO₂	7/24/2017	8.6	3rd Quarter, 2018	Pass	Results less than 20%
	022	Furnace Line One,	No MR	NO <sub>x</sub>	7/24/2017	2.0	3rd Quarter, 2018	Pass	Results less than 20%
020		Stack 2	NO WIN	SO <sub>2</sub>	7/24/2017	6.0	3rd Quarter, 2018	Pass	Results less than 20%
020	023	Furnace Line One,	No MR	NOx	7/24/2017	1.3	3rd Quarter, 2018	Pass	Results less than 20%
		Stack 3	NO WIK	SO₂	7/24/2017	10.5	3rd Quarter, 2018	Pass	Results less than 20%
	024	Furnace Line One,	No MR	NO <sub>x</sub>	7/24/2017	4.3	3rd Quarter, 2018	Pass	Results less than 20%
	024	Stack 4	NOIVIN	SO <sub>2</sub>	7/24/2017	4.7	3rd Quarter, 2018	Pass	Results less than 20%
	025	Furnace Line Two,	No MR	NOx	7/25/2017	1.8	3rd Quarter, 2018	Pass	Results less than 20%
	023	Stack 4	INO IVIN	SO₂	7/25/2017	9.9	3rd Quarter, 2018	Pass	Results less than 20%
	026	Furnace Line Two,	No MR	NOx	7/25/2017	2.4	3rd Quarter, 2018	Pass	Results less than 20%
021	020	Stack 3	NO IVIA	SO₂	7/25/2017	10.9	3rd Quarter, 2018	Pass	Results less than 20%
021	027	Furnace Line Two,	No MD	NO <sub>x</sub>	7/26/2017	8.2	3rd Quarter, 2018	Pass	Results less than 20%
	027	Stack 2	No MR	SO <sub>2</sub>	7/26/2017	6.2	3rd Quarter, 2018	Pass	Results less than 20%
e l	028	Furnace Line Two,	No MR	NO <sub>x</sub>	7/26/2017	8.3	3rd Quarter, 2018	Pass	Results less than 20%
, ,	028	Stack 1	NO WIK	SO <sub>2</sub>	7/26/2017	1.2	3rd Quarter, 2018	Pass	Results less than 20%
	029	Furnace Line One,	No MD	NO <sub>x</sub>	7/26/2017	2.9	3rd Quarter, 2018	Pass	Results less than 20%
	029	Stack 1	No MR	SO₂	7/26/2017	5.8	3rd Quarter, 2018	Pass	Results less than 20%
	030	Furnace Line One,	No MR	NO <sub>*</sub>	7/26/2017	1.1	3rd Quarter, 2018	Pass	Results less than 20%
022	000	Stack 2	INU IVIK	SO₂	7/26/2017	2	3rd Quarter, 2018	Pass	Results less than 20%
022	031	Furnace Line One,	No MR	NO <sub>*</sub>	7/27/2017	1.3	3rd Quarter, 2018	Pass	Results less than 20%
	031	Stack 3	NOW	SO <sub>2</sub>	7/27/2017	1.5	3rd Quarter, 2018	Pass	Results less than 20%
	032	Furnace	No Air	NOx	7/27/2017	6.2	3rd Quarter, 2018	Pass	Results less than 20%
	USZ	Line One, Stack 4	No MR	SO <sub>2</sub>	7/27/2017	6.2	3rd Quarter, 2018	Pass	Results less than 20%

<sup>\*</sup>The full RATA report has previously been submitted to the EPA. Refer to the referenced report for more information.

					CGA'	S			
Emission Unit (EU)	Stack Vent (SV)	EU Description	Monitor	Pollutant	Audit Date	Results (L/M%)	Next Test Due	Pass/Fail	Comments
SINC LOY		Furnace	344	NO <sub>x</sub>	4/25/2018	0.6/0.3	4th Quarter, 2018	Pass	
	021	Line One, Stack 1	No MR	SO₂	4/24/2018	1.7/0.9	4th Quarter, 2018	Pass	
	7	Furnace		NO <sub>x</sub>	4/25/2018	0.2/0.1	4th Quarter, 2018	Pass	,
	022	Line One, Stack 2	No MR	SO₂	4/24/2018	1.4/0.7	4th Quarter, 2018	Pass	_,
020		Stack 2 Furnace		NO <sub>x</sub>	4/25/2018	2.4/2.0	4th Quarter, 2018	Pass	None.
	023	Line One, Stack 3	No MR	SO₂	4/24/2018	0.4/1.4	4th Quarter, 2018	Pass	
		Furnace		NO <sub>x</sub>	4/25/2018	0.1/0.2	4th Quarter, 2018	Pass	
	024	Line One, Stack 4	No MR	SO₂	4/24/2018	2.5/0.4	4th Quarter, 2018	Pass	
		Furnace		NO <sub>x</sub>	4/24/2018	0.8/1.2	4th Quarter, 2018	Pass	
	025	Line Two, Stack 4	No MR	SO <sub>2</sub> .	4/25/2018	0.4/1.3	4th Quarter, 2018	Pass	
		Furnace	- iii	NO <sub>x</sub>	4/24/2018	0.7/0.6	4th Quarter, 2018	Pass	
	026	Line Two, Stack 3	No MR	SO₂	4/25/2018	4.2/1.1	4th Quarter, 2018	Pass	Xr .
021		Furnace		NO <sub>x</sub>	4/24/2018	0.1/0.9	4th Quarter, 2018	Pass	<u>N</u> one
	027	Line Two, Stack 2	No MR	ŞO₂	4/25/2018	0.6/2.9	4th Quarter, 2018	Pass	
		Furnace		NO <sub>x</sub>	4/24/2018	1.4/1.3	4th Quarter, 2018	Pass	•
	028	Line Two, Stack 1	No MR	SOz	4/25/2018	2,8/1.0	4th Quarter, 2018	Pass	
»···	· · · · · · · · · · · · · · · · · · ·	Furnace		NO <sub>x</sub>	4/24/2018	1.2/0.5	4th Quarter, 2018	Pass	
	029	Line One, Stack 1	No MR	SC2	4/25/2018	5.2/3.6	4th Quarter, 2018	Pass.	
		Furnace		NO <sub>x</sub>	4/24/2018	0.5/0.7	4th Quarter, 2018	Pass	
	030	Line One, Stack 2	No MR	SO₂	4/25/2018	3.7/1.9	4th Quarter, 2018	Pass	37
022		Furnace		NO <sub>x</sub>	4/24/2018	1.1/1.4	4th Quarter, 2018	Pass	None
	031	Line One, Stack 3	No MR	SO <sub>2</sub>	4/25/2018	4.5/0.3	4th Quarter, 2018	Pass	:
		Furnace		NO <sub>x</sub>	4/24/2018	0.2/03	4th Quarter, 2018	Pass	
	032	Line One, Stack 4	No MR	SO₂	4/25/2018	2.1/0.9	4th Quarter, 2018	Pass	
	)	11.01.A.*	* AI	ternate Speci	fication in PPN	// If noted wi	th asterisk		

		Cylinder (	Gas Audit Informa	ntion – Q2 2018		
Gas	Test Level	Analyzers	Cylinder ID Number	Date of Certification	Type of Certification	Certified Audit Value
NOX	Low	SV021-SV032	EB0086452	1/11/2017	EPA Protocol	50.07
NOX	Mid	SV021-SV032	CC419309	9/8/2017	EPA Protocol	100.7
SO2	Low	SV021-SV024 SV029-SV032	AAL067389	8/15/2017	EPA Protocol	12.50
SO2	Low	SV025-SV028	CC400334	11/7/2017	EPA Protocol	12.61
•		SV021-SV024				
SO2	Mid	SV029-SV032	ALM-041108	4/24/2017	EPA Protocol	25.12
SO2	Mid	SV025-SV028	CC50524	8/20/2017	EPA Protocol	24.49

Attachment B: Excess Emissions Report

April 1, 2018 - June 30, 2018

Reporting Period Dates:

Hibbing Taconite Company

4950 Hwy 5 North

Company Address: Company Name:

Hibbing MN

E1020, EU021, EU022 Process Unit Identification:

Pellet Indurating Furnace Line No. 1, 2 & 3; straight grate indurating furnaces. Process Unit Description:

347.4lbs SO2/hr (30 day rolling average) See Individual Stacks See Individual Stacks Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte:

SO2 See Individual Stacks See Individual Stacks See Individual Stacks See Individual Stacks Date of Latest CMS Certification or Audit: Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Manufacturer;

See Individual Stacks Description of changes in CEMS, processes, or controls since last reporting period;

0:0 0:0 0:0 0:0 Duration of excess emissions in reporting period due to: Excess Emissions Summary 2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%) b. Control equipment problems d. Other known causes c. Process problems a. Startup/Shutdown e. Unknown causes

Excess Emissions Details	ime Duration of Excess Pollutant Emissions (hours) Pollutant Emissions	There were no períods of excess emissions during this reporting period
	Duration of Excess Emissions (hours)	
	End Date & Time	
	Start Date & Time	

	Corrective Action		T TOTAL STATE OF THE STATE OF T			
CMS Downtime Details		ual Stacks				
CMS Downti	Cause of Monitor Downtime	See Individual Stacks				
	Duration of Monitor Downtime (hours)					
	End Date & Time					
	Start Date & Time					

Reporting Period Dates: April 1, 2018 - June 30, 2018

Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN
Process Unit Identification: EU020

Process Unit Description: Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 2,126 hours

Total Source Operating Days in Reporting Period: 91 days

Emission Limitation: NIA

Analyzer Analyzer Analyzer Mundracturer: Model No.: See Individual Stacks

Analyzer Serial Number: See Individual Stacks

Analyzer Serial Number: See Individual Stacks

Date of Latest CMS Certification or Audit: See Individual Stacks

Description of changes in CEMS, processes, or See Individual Stacks controls since last reporting period:

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
<ul> <li>b. Control equipment problems</li> </ul>	0.0
c. Process problems	0:0
d. Other known causes	0.0
e, Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
3. Total duration of excess emissions (%)	0.00%

					Excess Emissions Details	- THE STATE OF THE
Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	Corrective Action
				There were no p	There were no periods of excess emissions during this reporting	peri
THE PERSON NAMED OF TAXABLE PARTY OF TAX						0.000000000000000000000000000000000000

	Corrective Action	- Hadden	Company of the compan	AMARITY TO THE PROPERTY OF THE	THE PROPERTY CONTRACTOR OF THE PROPERTY CONTRACT	T-AMMENT - AMMENTATION - AMMEN	
CMS Downtime Details		See Individual Stacks					
CMS Down	Cause of Monitor Downtime	See Indivi				The state of the s	
	Duration of Monitor Downtime (hours)						
	End Date & Time						
	Start Date & Time						

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North

Company Address:

Hibbing MN

EU020 SV021 Process Unit Identification:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace. 2,126 hours Total Source Operating Time in Reporting Period: Process Unit Description:

91 days Total Source Operating Days in Reporting Period: Analyzer Manufacturer: Emission Limitation: Analyzer Analyte;

Teledyne Monitor Labs T200M 4/25/2018 225 Date of Latest CMS Certification or Audit: Analyzer Manufacturer Model No.: Analyzer Serial Number:

ΝA Description of changes in CEMS, processes, or controls since last reporting period: CMS Performance Summary b. Non-Monitor equipment malfunctions 1. CMS Downtime in reporting period due to: a. Monitor equipment malfunctions c. Quality assurance calibration 2. Total CMS Downtime (hours) d, Other known causes e. Unknown causes 0:0 0.0 0.0 0.0 1. Duration of excess emissions in reporting period due to: Excess Emissions Summary 2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%) b. Control equipment problems d. Other known causes c. Process problems a. Startup/Shutdown e. Unknown causes

0.0 0.0 0.0 3. Total CMS Downtime (%)

Corrective Action There were no periods of excess emissions during this reporting period Cause of Excess Emissions Excess Emissions Details Magnitude of Emissions Pollutant Duration of Excess Emissions (hours) End Date & Time Start Date & Time

CMS Downtime Details	Corrective Action	There were no periods of downtime during this reporting period.				, programme and the state of th			
CMS Dow	Cause of Monitor Downtime	There were no periods of down							
	Duration of Monitor Downtime (hours)		0.0	0.0	0.0	0.0	0.0	0.0	0:0
	Start Date & Time End Date & Time								
	Start Date & Time								

April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North Reporting Period Dates: Company Address: Company Name:

Hibbing MN

EU020 SV021 Process Unit Identification:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace. Teledyne Monitor Labs T100H 2,126 hours 4/24/2018 91 days Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Date of Latest CMS Certification or Audit: Analyzer Manufacturer: Analyzer Manufacturer Model No.: Process Unit Description: Analyzer Serial Number: Emission Limitation: Analyzer Analyte;

Ν Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	
1. Duration of excess emissions in reporting period due to:	
a. Startup/Shutdown	0.0
b. Control equipment problems	0.0
c. Process problems	0:0
d. Other known causes	0.0
e. Unknown causes	0.0
<ol><li>Total duration of excess emissions (days)</li></ol>	0.0
3 Total duration of excess emissions (%)	%OU U

	CMS Performance Summary	
1. CMS D	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	
⊠ roʻ	a. Monitor equipment malfunctions	0.0
Z,	<ul> <li>b. Non-Monitor equipment maifunctions</li> </ul>	0.0
o o	c. Quality assurance calibration	0.0
9	d. Other known causes	0.0
⊃ ei	e. Unknown causes	0'0
2. Total Cl	2. Total CMS Downtime (hours)	0.0
3. Total C	3. Total CMS Downtime (%)	0.00%

rting period	re no periods of excess emissions during this repo	Тһеге wеге по			- Caratta Andrews	
adourable between the control of the	cause of Exercis chinasistic	Emissions	rollulalli	Emissions (hours)	Clin Date & Title	Stall Date & Hille
Corrective Acti	Cause of Expass Emissions	Magnitude of	tacturillo.	Duration of Excess	End Date 8 Tim	Chart Date & Time
	Excess Emissions Details					

CMS Downtime Details	Corrective Action	ime during this reporting period.			ATTENDED TO THE PROPERTY OF TH		The state of the s	The second secon	
CMS Downt	Cause of Monitor Downtime	There were no periods of downtime during this reporting period.							
	Duration of Monitor Downtime (hours)		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	End Date & Time								
	Start Date & Time								

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company

Hibbing Taconite Company
4950 Hwy 5 North

Company Address: 4950 Hwy 5 n

Process Unit Identification: EU020 SV021

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 2,126 hours
Total Source Operating Days in Reporting Period: 91 days
Emission Limitation: NA
Analyzer Analyzer Manufacturer. Sick Mainak
Analyzer Manufacturer Model No.: FLSE 100-H K178 35HSH

Analyzer Manufacturer Model No.: FLSE 100-H K178 35HSHS
Analyzer Serial Number. 13438339/ 8398564
Date of Latest CMS Certification or Audit: 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period:

1. Duration of excess emissions Summary
2. Duration of excess emissions in reporting period due to:
2. Sharkup/Shutdown
3. Control equipment problems
4. Other known causes
5. Unknown causes
6. Unknown causes
6. Unknown causes
7. Total curation of excess emissions (4ays)
7. Total curation of excess emissions (4ays)
7. Total CMS Downtime in reporting period due to:
4. Other known causes
6. Unknown causes
7. Total curation of excess emissions (4ays)
7. Total CMS Downtime (frours)
7. Total CMS Downtime (5x)

CMS Downtime in reporting period due to:

a. Monitor equipment malfunctions
b. Non-Monitor equipment malfunctions
c. Quality assurance calibration
d. Other known causes
e. Unknown causes
e. Unknown causes
2. Total CMS Downtime (hours)
3. Total CMS Downtime (%)
0.00%

	Corrective Action	períod	
Excess Emissions Details	Cause of Excess Emissions	here were no periods of excess emissions during this reporting r	
	Magnitude of Emissions	There were no p	
	Pollutant		
	Duration of Excess Emissions (hours)		
	End Date & Time		
	Start Date & Time		

	Corrective Action	his reporting period.		107944LLLLL	TOTAL PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF	CONTROL MANAGEMENT CONTROL MANAG	The state of the s	TOTAL	Territoria de la companya del la companya de la com
CMS Downtime Details	Cause of Monttor Downtime	There were no periods of downtime during this reporting period.		1 11 7 10 10 10 10 10 10 10 10 10 10 10 10 10	TI TIMANALA	THE PARTY OF THE P	- The state of the		
	Duration of Monitor Downtime (hours)		0.0	0.0	0,0	0.0	0.0	0'0	0'0
	End Date & Time								
	Start Date & Time								

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North

EU020 SV022 Hibbing MN Process Unit Identification:

Company Address:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Process Unit Description:

Teledyne Monitor Labs 2,126 hours 91 days T200M χοχ 226 Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Manufacturer: Emission Limitation: Analyzer Analyte:

4/25/2018 Description of changes in CEMS, processes, or controls since last reporting period: Date of Latest CMS Certification or Audit

1. Duration of excess emissions in reporting period due to:

b. Control equipment problems

d. Other known causes c. Process problems a. Startup/Shutdown

Unknown causes.

Excess Emissions Summary

ΑŽ

0.00000 CMS Performance Summary b. Non-Monitor equipment malfunctions CMS Downtime in reporting period due to: a. Monitor equipment malfunctions c. Quality assurance calibration 2. Total CMS Downtime (hours) d. Other known causes 3. Total CMS Downtime (%) e. Unknown causes

0.0

2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%)

Corrective Action There were no periods of excess emissions during this reporting period Cause of Excess Emissions Excess Emíssions Details Poliutant Duration of Excess Emissions (hours) End Date & Time Start Date & Time

CMS Downtime Details	Corrective Action	Chiller malfunction - repaired, followed SSM plan							
CMS Dow	Cause of Monitor Downtime	Monitor equipment malfunctions	Monitor equipment maifunctions	Monitor equipment maffunctions	Monitor equipment maifunctions	Monitor equipment malfunctions			
	Duration of Monitor Downtime (hours)	1.0	1.0	1.0	1.0	2.0	0.0	0.0	00
	End Date & Time	6/2/18 17:59	6/2/18 21:59	6/3/18 1:59	6/3/18 5:59	6/3/18 8:59			
	Start Date & Time	6/2/18 17:00	6/2/18 21:00	6/3/18 1:00	6/3/18 5:00	6/3/18 7:00			

Reporting Períod Dates: Company Name:

April 1, 2018 - June 30, 2018 Hibbing Taconite Company

4950 Hwy 5 North

EU020 SV022 Hibbing MN Process Unit Identification: Company Address:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Process Unit Description:

Teledyne Monitor Labs T100H 2,126 hours 91 days Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte:

136 Analyzer Manufacturer. Analyzer Manufacturer Model No.: Analyzer Serial Number.

4/24/2018

Date of Latest CMS Certification or Audit:

N/A Description of changes in CEMS, processes, or controls since last reporting period:

CMS Performance Summary	1. CMS Downtime in reporting period due to:	a. Monitor equipment malfunctions	b. Non-Monitor equipment malfunctions	c. Quality assurance calibration	d, Other known causes	e. Unknown causes	2. Total CMS Downtime (hours)	3. Total CMS Downtime (%)
		0.0	0.0	0.0	0.0	0.0	0.0	0.00%
Excess Emissions Summary	1. Duration of excess emissions in reporting period due to:	a. Startup/Shutdown	<ul> <li>b. Control equipment problems</li> </ul>	c. Process problems	d. Other known causes	e. Unknown causes	2. Total duration of excess emissions (days)	3. Total duration of excess emissions (%)

CMS Performance Summary	
<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	
a. Monitor equipment malfunctions	6.0
<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>	0.0
c. Quality assurance calibration	0.0
d, Other known causes	0.0
e, Unknown causes	0.0
2. Total CMS Downtime (hours)	6.0
3. Total CMS Downtime (%)	0.28%

	Corrective Action	ig period	
Eveces Fillissions Details	Cause of Excess Emissions	There were no periods of excess emissions during this reporting period	
	Magnitude of Emissions	There were no	
	Pollutant		
.00	Duration of Excess Emissions (hours)		
	End Date & Time		
	Start Date & Time		

			CMS Down	CMS Downtime Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
6/2/18 17:00	6/2/18 17:59	1.0	Monitor equipment maifunctions	Chiller malfunction - repaired, followed SSM plan
6/2/18 21:00	6/2/18 21:59	1.0	Monitor equipment maifunctions	Chiller malfunction - repaired, followed SSM plan
6/3/18 1:00	6/3/18 1:59	1.0	Monitor equipment maifunctions	Chiller malfunction - repaired, followed SSM plan
6/3/18 5:00	6/3/18 5:59	1.0	Monitor equipment malfunctions	Chiller malfunction - repaired, followed SSM plan
6/3/18 7:00	6/3/18 8:59	2.0	Monitor equipment malfunctions	Chiller malfunction - repaired, followed SSM plan
		0.0		
		0.0		
		00		

April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North Reporting Period Dates: Company Name:

Company Address:

Hibbing MN

EU020 SV022 Process Unit Identification:

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318686/ 11318687 727/2017 2,126 hours 91 days Ϋ́ Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Analyzer Analyte: Analyzer Manufacturer: Analyzer Manufacturer Model No.: Analyzer Serfal Number: Date of Latest CMS Certification or Audit. Emission Limitation:

Description of changes in CEMS, processes, or controls since last reporting period:

N/A

Excess Emissions Summary
1. Duration of excess emissions in reporting period due to:

b. Control equipment problems

a. Startup/Shutdown c. Process problems e. Unknown causes

d. Other known causes

2, Total duration of excess emissions (days)

3. Total duration of excess emissions (%)

	CMS Performance Summary	
	1. CMS Downtime in reporting period due to:	
0.0	a. Monitor equipment malfunctions	0.0
0.0	b. Non-Monitor equipment malfunctions	0.0
0.0	c. Quality assurance calibration	0.0
0.0	d. Other known causes	0.0
0.0	t e. Unknown causes	0.0
0.0	2. Total CMS Downtime (hours)	0.0
%00'0	3. Total CMS Downtime (%)	0.00%

AND	Corrective Action	eporting period
Excess Emissions Details	Cause of Excess Emissions	sions during this
	Pollutant Emissions	There were no periods of excess emis
	Duration of Excess Emissions (hours)	
	End Date & Time	
	Start Date & Time	

Start Date & Time	End Date & Time Duratil	Duration of Monitor Downtime (hours) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Cause of Monitor Downtime There were no periods of downtime during this reporting period.	rine Details  Corrective Action The during this reporting period.	COLOMBITY
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April 1, 2018 - June 30, 2018 Reporting Period Dates:

Hibbing Taconite Company

4950 Hwy 5 North

Hibbing MN

Company Address: Company Name:

EU020 SV023 Process Unit Identification:

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

2,126 hours 91 days Total Source Operating Days in Reporting Period: Total Source Operating Time in Reporting Period:

Teledyne Moniror Labs T200M Š Analyzer Manufacturer; Emission Limitation: Analyzer Analyte:

4/25/2018 Date of Latest CMS Certification or Audit: Analyzer Manufacturer Model No.: Analyzer Serial Number.

ΑŅ Description of changes in CEMS, processes, or controls since last reporting period:

Duration of excess emissions in reporting period due to:

b. Control equipment problems

a. Startup/Shutdown

d, Other known causes c. Process problems

e, Unknown causes

Excess Emissions Summary

CMS Performance Summary b. Non-Monitor equipment malfunctions CMS Downtime in reporting period due to: a. Monitor equipment malfunctions c. Quality assurance calibration 2. Total CMS Downtime (hours) d, Other known causes e. Unknown causes 0.0

0.0 0.0

0.0

Corrective Action There were no periods of excess emissions during this reporting period Cause of Excess Emissions Excess Emissions Details Pollutant Duration of Excess Emissions (hours) End Date & Time Start Date & Time

3. Total CMS Downtime (%)

2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%)

Details	Corrective Action	during this reporting period.	WANTED TO THE PROPERTY OF THE			THE PROPERTY OF THE PROPERTY O			
CMS Downtime Details	Duration of Monitor Cause of Monitor Downtime	There were no periods of downtime during this reporting period.	0.0	0.0	0.0	0.0	0.0	0'0	0.0
	End Date & Time								
	Start Date & Time						777		

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North

Hibbing MN Company Address:

Process Unit Description:

EU020 SV023 Process Unit Identification: Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

2,126 hours 91 days Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation:

Teledyne Monitor Labs 134 4/24/2018 T100H Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Manufacturer: Analyzer Analyte:

Description of changes in CEMS, processes, or controls since last reporting period: Date of Latest CMS Certification or Audit:

۷,N

Excess Emissions Summary		
1. Duration of excess emissions in reporting period due to:		1. CMS Downtime
a. Startup/Shutdown	0.0	a. Monitor ed
b. Control equipment problems	0.0	b. Non-Mani
c. Process problems	0.0	c. Quality as
d. Other known causes	0.0	d. Other kno
e. Unknown causes	0.0	e, Unknown
2. Total duration of excess emissions (days)	0.0	2, Total CMS Dow
3. Total duration of excess emissions (%)	0.00%	3. Total CMS Dow

CMS Performance Summary	
<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	
a. Monitor equipment malfunctions	0.0
<ul> <li>b. Non-Monitor equipment maifunctions</li> </ul>	0.0
c. Quality assurance calibration	0.0
d. Other known causes	0.0
e. Unknown causes	0.0
2, Total CMS Downtime (hours)	0.0
3. Total CMS Downtime (%)	0.00%

Corrective Action	oring period	TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE	Corrective Action
Cause of Excess Emissions	There were no periods of excess emissions during this reporting period	CMS Downtime Details	
	periods of excess		Downtime
Emissions	There were no		Cause of Monitor Downtime
Pollutant	Ė		3
Emissions (hours)			Duration of Monitor Downtime (hours)
End Date & Time	Hamilton and the second and the seco	100000000000000000000000000000000000000	End Date & Time
Start Date & Time			Start Date & Time

Excess Emissions Details

Details	Corrective Action	during this reporting period.	- California de la Cali		allows .		The second secon	A STATE OF THE STA	
CMS Downtime Details	Cause of Monitor Downtime	There were no periods of downtime during this reporting period.							
	Duration of Monitor Downtime (hours)		0.0	0.0	0.0	0.0	0,0	0.0	0.0
	End Date & Time								
	Start Date & Time								

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North Hibbing MiN Company Address:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace. Process Unit Description:

EU020 SV023

Process Unit Identification:

2,126 hours 91 days Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation:

Sick Maihak Stack Flow Analyzer Manufacturer: Analyzer Analyte:

FLSE 100-H K178 35HSHS 11318686/ 11318679 7/27/2017 Analyzer Manufacturer Model No.: Analyzer Serial Number: Date of Latest CMS Certification or Audit:

Ϋ́ Description of changes in CEMS, processes, or controls since last reporting period:

0.0 0.0 0.0 0.0 1. Duration of excess emissions in reporting period due to: b. Control equipment problems d, Other known causes c. Process problems a. Startup/Shutdown e. Unknown causes

2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%)

0,00000 b. Non-Monitor equipment maifunctions 1. CMS Downtime in reporting period due to: Monitor equipment malfunctions c, Quality assurance calibration 2. Total CMS Downtime (hours) d. Other known causes 3. Total CMS Downtime (%) e. Unknown causes

	There were no periods of excess emissions during this reporting period	The		
Corrective Action	iagnitude of Cause of Excess Emissions	Duration of Excess Emissions Pollutant Ma	End Date & Time	Start Date & Time
	Excess Emissions Details			

0.0	CMS Downtime Details
0.0	Start Date & Time
The state of the s	

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North

Hibbing MN Company Address:

EU020 SV024 Process Unit Identification: Pellet Indurating Furnace Line No. 1; straight grate indurating furnace. Process Unit Description:

Teledyne Moniror Labs 2,126 hours 91 days 215 4/25/2018 T200M Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Date of Latest CMS Certification or Audit. Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Manufacturer: Analyzer Analyte:

۸ Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary		CMS
1. Duration of excess emissions in reporting period due to:		1. CMS Downtime in reportin
a, Startup/Shutdown	0:0	a. Monitor equipment n
b. Control equipment problems	0'0	b. Non-Monitor equipm
c. Process problems	0.0	c, Quality assurance or
d, Other known causes	0.0	d, Other known causes
e. Unknown causes	0.0	e. Unknown causes
2. Total duration of excess emissions (days)	0:0	2. Total CMS Downtime (hou
A Total duration of excess emissions (%)	%000	3 Total CMS Downtime (%)

CMS Performance Summary	
<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	
a. Monitor equipment malfunctions	0.0
<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>	0.0
c, Quality assurance calibration	0.0
d, Other known causes	0.0
e. Unknown causes	0.0
2. Total CMS Downtime (hours)	0.0
3, Total CMS Downtime (%)	0.00%

		p		
Corrective Action	ons during this reporting period		DOMMIN	Corrective Action
Cause of Excess Emissions	There were no periods of excess emissions during this reporting period		CMS Downtime Details	
Magnitude of Cau	There were no periods of e			Cause of Monitor Downtime
ollutant Mag	The			Cause o
Duration of Excess Po Emissions (hours)				Duration of Monitor Downtime (hours)
End Date & Time				ne End Date & Time
Start Date & Time	THE THE PARTY OF T			Start Date & Time

Start Date & Time End Date & Time	Time Duration of Monitor Downtime (hours) 0.0 0.0 0.0 0.0 0.0 0.0 0.0	CMS Down Cause of Monitor Downtime There were no periods of down	Corrective Action There were no periods of downtime during this reporting period.

April 1, 2018 - June 30, 2018 Reporting Period Dates: Company Name:

Hibbing Taconite Company

4950 Hwy 5 North

Hibbing MN Company Address:

EU020 SV024

Process Unit Identification: Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Teledyne Monitor Labs 2,126 hours 135 4/24/2018 91 days T100H Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Date of Latest CMS Certification or Audit Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Manufacturer: Emission Limitation: Analyzer Analyte:

ΑX Description of changes in CEMS, processes, or controls since last reporting period:

1. Duration of excess emissions in reporting period due to: Excess Emissions Summary

0.0 0.0 0.0 0.0 CMS Performance Summary b. Non-Monitor equipment malfunctions 1. CMS Downtime in reporting period due to: a. Monitor equipment malfunctions c. Quality assurance calibration 2. Total CMS Downtime (hours) d. Other known causes 3. Total CMS Downtime (%) e. Unknown causes 0.0

> 2. Total duration of excess emissions (days) 3. Total duration of excess emissions (%)

b. Control equipment problems

d. Other known causes c. Process problems a. Startup/Shutdown

e. Unknown causes

Corrective Action There were no periods of excess emissions during this reporting period Cause of Excess Emissions Excess Emissions Details Pollutant Duration of Excess Emissions (hours) End Date & Time Start Date & Time

_				_					_
CMS Downtime Details	Corrective Action	Routine maintenance work. Returned to operation, Followed SSM plan,							
CMS Down	Cause of Monitor Downtime	Other known causes							
	Duration of Monitor Downtime (hours)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	End Date & Time	04/23/2018 10:59							
	Start Date & Time	04/23/2018 10:00							

Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North

Process Unit Identification: EU020 SV024 Hibbing MN

Process Unit Description:

Pellet Indurating Furnace Line No. 1; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: 91 days 2,126 hours

Analyzer Serial Number: Date of Latest CMS Certification or Audit Analyzer Manufacturer:
Analyzer Manufacturer Model No.: Emission Limitation: Analyzer Analyte: ΝA

Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 8398550/ 8398551 7/27/2017

11318674/11168507\*

\*Installed from 4/20/18 9:50AM to 5/4/18 10:42AM

5/2/2018

Description of changes in CEMS, processes, or controls since last reporting period: N/A

Total duration of excess emissions (%)     0.00%	<ol><li>Total dur</li></ol>
Total duration of excess emissions (days)	2. Total dur
e, Unknown causes 0.0	e, Unkı
d. Other known causes 0.0	d. Othe
c. Process problems 0.0	c, Proc
b. Control equipment problems 0.0	b. Con
a. Startup/Shutdown 0.0	a, Star
1. Duration of excess emissions in reporting period due to:	<ol> <li>Duration</li> </ol>
Excess Emissions Summary	

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant

Magnitude of Cause of Excess Emissions
Emissions
There were no periods of excess emissions during this reporting period

Corrective Action

Excess Emissions Details

0.14%	3. Total CMS Downtime (%)
3.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0,0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment mailunctions</li> </ul>
3.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CRO religionation substitut y

٦							$\neg$			
							06/24/2018 23:00	Start Date & Time		
							06/25/2018 01:59	End Date & Time		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	Duration of Monitor  Downtime (hours)		
							Monitor equipment malfunctions	Cause of Monitor Downtime	CMS Down	
							Flow meter cleaned. Returned to operation. Followed SSM plan.	Corrective Action	CMS Downtime Details	

Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North Hibbing MN

Process Unit Identification: EU021

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: 75 days N/A 1,737 hours

Process Unit Description:

Date of Latest CMS Certification or Audit: Analyzer Manufacturer;
Analyzer Manufacturer Model No.: Analyzer Serial Number: Analyzer Analyte: See Individual Stacks See Individual Stacks See Individual Stacks See Individual Stacks NO NO

Description of changes in CEMS, processes, or controls since last reporting period:

See Individual Stacks

Excess Emissions Summary  1. Duration of excess emissions in reporting period due to:  a. Startup/Shutdown  b. Control equipment problems  c. Process problems  d. Other known causes  e. Unknown causes  o.0  2. Total duration of excess emissions (days)  0.0	0.00%	3. Total duration of excess emissions (%)	(L)
	0.0	<ol><li>Total duration of excess emissions (days)</li></ol>	N
	0.0	e. Unknown causes	
	0.0	d. Other known causes	
	0.0	c. Process problems	
	0.0	<ul> <li>b. Control equipment problems</li> </ul>	
Excess Emissions Summary  1. Duration of excess emissions in reporting period due to:	0.0	a. Startup/Shutdown	
Excess Emissions Summary		<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>	:
		Excess Emissions Summary	

rting period	There were no periods of excess emissions during this reporting period	There were no	The			
Corrective Action	Cause of Excess Emissions	Pollutant Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

				CMS Dowr	CMS Downtime Details
	Start Date & Time	End Date & Time	Duration of Monitor  Downtime (hours)	Cause of Monitor Downtime	Corrective Action
				See Indivi	See Individual Stacks
			0.00		
_			0.00		
_			0.00		
_			0.00		
_			0.00		
_			0.00		
_			0.00		
					·

Company Name: Reporting Period Dates: Company Address: Process Unit Identification: April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North EU021 SV025 Hibbing MN

Process Unit Description: Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte: 1,737 hours 75 days N*I*A XON

Analyzer Manufacturer:
Analyzer Manufacturer Model No.: Analyzer Serial Number: 199 4/24/2018 Teledyne Monitor Labs T200M

Description of changes in CEMS, processes, or controls since last reporting period: Š

Date of Latest CMS Certification or Audit:

Excess Emissions Summary	
<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>	
a. Startup/Shutdown	0.0
<ul> <li>b. Control equipment problems</li> </ul>	0.0
c. Process problems	0.0
d. Other known causes	0.0
e. Unknown causes	0.0
2. Total duration of excess emissions (days)	0.0
<ol> <li>Total duration of excess emissions (%)</li> </ol>	0.00%

0,00%	3. Total CMS Downtime (%)
0.0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0,0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary
	The second secon

rting period	no periods of excess emissions during this reporting period	There were no				
		Emissions	1 Ollowarie	Emissions (hours)		State Date & Tillie
Corrective Action	lagnitude of Cause of Excess Emissions	Magnitude of	Ballistand	Duration of Excess	End Date & Time	Start Date & Time
	Excess Emissions Details					
The state of the s						The state of the s

É		П	_			ı				
				ANGEOGRAPH T				CALCULATION OF THE PROPERTY OF	Start Date & Time	
									End Date & Time	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Duration of Monitor Downtime (hours)	
								There were no periods of down	Cause of Monitor Downtime	CMS Down
					L STANDARD BERNANDER TOTAL			There were no periods of downtime during this reporting period.	Corrective Action	CMS Downtime Details

Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing MN 4950 Hwy 5 North Hibbing Taconite Company

Process Unit Identification:

Process Unit Description: EU021 SV025

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace,

Emission Limitation: Total Source Operating Days in Reporting Period: Total Source Operating Time in Reporting Period: 75 days 1,737 hours

Date of Latest CMS Certification or Audit: Analyzer Serial Number: Analyzer Manufacturer Model No.: Analyzer Manufacturer: Analyzer Analyte: T100H 4/25/2018 117 Teledyne Monitor Labs

Description of changes in CEMS, processes, or controls since last reporting period:

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e, Unknown causes
0.0	d. Other known causes
0,0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	Total CMS Downtime (%)
0.0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0.0	d, Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

arting period	There were no periods of excess emissions during this reporting period	There were no				
Corrective Action	Cause of Excess Emissions	ess Pollutant Magnitude of urs) Pollutant Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

				0.0		
1 TATAL TO THE TATAL THE TATAL TO THE TATAL THE TATAL TO				0,0		
				0.0		
THE PROPERTY OF THE PROPERTY O				0.0		
				0.0		
				0.0		
THE PARTY OF THE P				0.0		
od.	There were no periods of downtime during this reporting period.	There were no				
Corrective Action	ntime	Cause of Monitor Downtime	C	Duration of Monitor Downtime (hours)	End Date & Time	Start Date & Time
TATALAN AND AND AND AND AND AND AND AND AND A	CMS Downtime Details					
THE STATE OF THE S						
period :	There were no periods of excess emissions during this reporting period	There were no perio				
Corrective Action	Cause of Excess Emissions	Magnitude of Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

Company Address: Company Name: Reporting Period Dates: Hibbing MN 4950 Hwy 5 North April 1, 2018 - June 30, 2018 Hibbing Taconite Company

Process Unit Identification: EU021 SV025

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Process Unit Description:

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Analyzer Analyte: Emission Limitation: 75 days 1,737 hours

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit: Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318688/11318669 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period: NA

0.0	
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
	e. Unknown causes
0,0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant Magnitude of Emissions

There were no periods of excess emissions during this reporting period

Excess Emissions Details Cause of Excess Emissions

Corrective Action

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment matfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary
The second secon	

	$\dashv \bot$
Start Date & Time End Date & Time	ime Duration of Monitor Downtime (hours)
	0.0
	0.0
- Control of the Cont	0.0
	0.0
	0.0
	0.0
	2

Company Address: Company Name: Reporting Period Dates: 4950 Hwy 5 North April 1, 2018 - June 30, 2018 Hibbing Taconite Company Hibbing MN

Process Unit Identification: EU021 SV026

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: 75 days N/A 1,737 hours

Analyzer Analyte:

Process Unit Description:

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number: T200M NOX Teledyne Monitor Labs

Date of Latest CMS Certification or Audit: 4/24/2018

Description of changes in CEMS, processes, or controls since last reporting period:

0.00%	Total duration of excess emissions (%)
0,0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	3. Total CMS Downlime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

Excess Emissions Details  Start Date & Time
---

	_	Г	Т	Τ_		Π	Т	Π	_	Г
									Start Date & Time	
									End Date & Time	
	0,0	0.0	0.0	0.0	0.0	0.0	0.0		Duration of Monitor  Downtime (hours)	
								There were no periods of down	Cause of Monitor Downtime	CMS Dowl
T. POLICE CO. C.								There were no periods of downtime during this reporting period.	Corrective Action	CMS Downtime Details.

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN

Process Unit Identification: EU021 SV026

Process Unit Description: Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,737 hours
Total Source Operating Days in Reporting Period: 75 days
Emission Limitation: NIA
Analyzer Analyte: SO2
Analyzer Manufacturer: Teledyne Monitor Labs

Analyzer Serial Number: 115
Date of Latest CMS Certification or Audit: 4/25/2018

Analyzer Manufacturer Model No.:

T100H

Description of changes in CEMS, processes, or controls since last reporting period;

N/A

Excess Emissions Summary

1. Duration of excess emissions in reporting period due to:

a. Startup/Shutdown

b. Control equipment problems

c. Process problems

d. Other known causes

e. Unknown causes

2. Total duration of excess emissions (days)

3. Total duration of excess emissions (%)

0.00%

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	GMS Performance Summary

	periods of excess emissions during this reporting period	There were no pe				There were no
Corrective Action	Cause of Excess Emissions	Magnitude of Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

		0,0		
		0.0		
ALT-CARGODITY : -		0.0		
		0.0		
		0.0		
		0.0		
		0.0		
There were no periods of downtime during this reporting period.	There were no periods of down			
	Cause of Monitor Downtime	Duration of Monitor Downtime (hours)	End Date & Time	Start Date & Time
CMS Downtime Details	CMS Down			

Company Address: Company Name: Reporting Period Dates: 4950 Hwy 5 North April 1, 2018 - June 30, 2018 Hibbing Taconite Company Hibbing MN

Process Unit Identification: EU021 SV026

Process Unit Description: Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit Analyzer Analyte: Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: 75 days Z/A 1,737 hours

Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318672/ 11318685 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period: Z

ı	
%	3. Total duration of excess emissions (%) 0,00%
0.0	2. Total duration of excess emissions (days)
0.0	e, Unknown causes
0.0	d. Other known causes
0,0	c. Pracess problems
0.0	b. Control equipment problems
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	Total CMS Downtime (%)
0.0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

				0.0		
				0.0		
períod.	There were no periods of downtime during this reporting period.	There were r				
Carrective Action	Downtime	Cause of Monitor Downtime		Duration of Monitor Downtime (hours)	End Date & Time	Start Date & Time
	CMS Downtime Details					
TO A CONTROL OF THE C						
ing period	There were no periods of excess emissions during this reporting period	There were no p				
Corrective Action	Cause of Excess chilssons		Pollutarit	Emissions (hours)	Clid Date of Tillie	Stailt Date & Title
	Course of Europea Emissions	Magnitude of	2	Duration of Excess	End Data 8 Time	Ctat Data 8 Time

Excess Emissions Details

8 8 8 8

Reporting Period Dates:

Company Name:

Hibbing Taconite Company

Company Address:

Company Address:

Hibbing MN

Process Unit Identification:

EU021 SV027

Process Unit Description: Pellet indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,737 hours
Total Source Operating Days in Reporting Period: 75 days
Emission Limitation: NIA
Analyzer Analyte: NIOX
Analyzer Manufacturer: Teledyne Monitor L

Analyzer Analyte:

Analyzer Manufacturer:

Analyzer Manufacturer:

Analyzer Manufacturer Model No.:

Analyzer Manifacturer Model No.:

T200M

Analyzer Safial Number:

Date of Latest CMS Certification or Audit:

4/24/2018

Description of changes in CEMS, processes, or N/A controls since last reporting period:

3. Total duration of excess emissions (%) 0.00%
2. Total duration of excess emissions (days) 0.0
 e. Unknown causes 0.0
d. Other known causes 0.0
c. Process problems 0.0
b. Control equipment problems
a. Startup/Shutdown 0.0
<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
Excess Emissions Summary

0.00%	3. Total CMS Downtime (%)
0,0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

Corrective Action		Cause of Monitor Downtime		Duration of Monitor	End Date & Time	Start Date & Time
	CMS Downtime Details					And a facility of sunday control of the sunday of the sund
A CONTRACTOR OF THE PROPERTY O	***************************************	Ambiento en esta contrata de la contrata del contrata del contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata del contrata del contrata de la contrata del contrata del contrata del contrata del contrata del contrata del cont		SWANDING TO THE		101V3XXXXXIIII
orting period	There were no periods of excess emissions during this reporting period	There were no periods of				
Corrective Action	Cause of Excess Emissions	s Pollutant Magnitude of C	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details	·				

Corrective Action	0.0	0.0 0.0	0.0	There were no periods of downtime during this reporting period.	Start Date & Time End Date & Time Downtime (hours) Cause of Monitor Downtime	บพร Jowname Details
-------------------	-----	------------	-----	---	--	---------------------

Company Address: Company Name: Reporting Period Dates: Hibbing MN 4950 Hwy 5 North Hibbing Taconite Company April 1, 2018 - June 30, 2018

Process Unit Identification: EU021 SV027

Process Unit Description: Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Analyzer Manufacturer: Emission Limitation: Analyzer Manufacturer Model No.: Analyzer Analyte: Total Source Operating Days in Reporting Period: Total Source Operating Time in Reporting Period: 802 75 days 1,737 hours Teledyne Monitor Labs

Date of Latest CMS Certification or Audit: Analyzer Seriai Number: T100H 4/25/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Z,

1. Duration of excess emissions in reporting period due to: a, Startup/Shutdown b. Control equipment problems d. Other known causes c. Process problems Excess Emissions Summary

Total duration of excess emissions (%) Total duration of excess emissions (days)

e, Unknown causes

3. Total CMS Downtime (%) Total CMS Downtime (hours) 1. CMS Downtime in reporting period due to: e. Unknown causes d. Other known causes b. Non-Monitor equipment maifunctions a. Monitor equipment malfunctions c. Quality assurance calibration CMS Performance Summary 0.0

0.0

rting period	There were no periods of excess emissions during this reporting period	There were no p				
Corrective Action	Cause of Excess Emissions	Magnitude of Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

			CMS Down	CMS Downtime Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
			There were no periods of down	There were no periods of downtime during this reporting period.
		0.0		
		0,0		, propilation .
		0.0		CONTROL AND A STATE OF THE STAT
	- Continue	0.0		
		0.0		
		0.0		
		0.0		

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN
Company Address: Hibbing MN

Process Unit Identification: EU021 SV027

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Process Unit Description:

Total Source Operating Time in Reporting Period: 1,737 hours
Total Source Operating Days in Reporting Period: 75 days
Errission Limitation: N/A

Analyzer Analyte: Stack Flow
Analyzer Marufacturer: Sick Maihak
Analyzer Marufacturer Model No.: FLSE 100-H K178 35HSHS
Analyzer Serial Number: 11318884/11318881
Date of Latest CMS Certification or Audit: 7/27/2017

Description of changes in CEMS, processes, or N/A controls since last reporting period:

Excess Emissions Summary

1. Duration of excess emissions in reporting period due to:

a. Startup/Shutdown

b. Control equipment problems

c. Process problems

d. Other known causes

e. Unknown causes

e. Unknown causes

2. Total duration of excess emissions (days)

3. Total duration of excess emissions (%)

0.00%

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant

Magnitude of Emissions

There were no periods of excess emissions during this reporting period

Excess Emissions Details
Cause of Excess Emissions

Corrective Action

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

		Armetic Property					Start Date & Time		
							e End Date & Time	100,725	
•	0.0	0.0	0.0	0.0	0.0		Duration of Monitor  Downtime (hours)		
						There were no periods of dov	Cause of Monitor Downtime	CMS Dov	
						There were no periods of downtime during this reporting period.		CMS Downtime Details	
	A CONTRACTOR OF THE PROPERTY O						Corrective Action		
					112000000000000000000000000000000000000				

Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company Hibbing MN 4950 Hwy 5 North

Process Unit Identification: EU021 SV028

Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Process Unit Description:

Emission Limitation: Total Source Operating Days in Reporting Period: Total Source Operating Time in Reporting Period: 75 days 1,737 hours

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number: Analyzer Analyte: 198 4/24/2018 Teledyne Monitor Labs T200M

Date of Latest CMS Certification or Audit:

Description of changes in CEMS, processes, or controls since last reporting period: 1. Duration of excess emissions in reporting period due to: a. Startup/Shutdown Excess Emissions Summary Z

2. Total duration of excess emissions (days)

d. Other known causes

0.0

e. Unknown causes

 b. Control equipment problems c. Process problems

Total duration of excess emissions (%)

CMS Performance Summary  1. CMS Downtime in reporting period due to:  a. Monitor equipment malfunctions b. Non-Monitor equipment malfunctions c. Quality assurance calibration d. Other known causes e. Unknown causes 0.0 2. Total CMS Downtime (hours) 0.0	0.00%	3. Total CMS Downtime (%)
ummary s	0.0	2. Total CMS Downtime (hours)
ummary	0.0	e. Unknown causes
ummary s	0.0	d. Other known causes
ummary	0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
ummary	0.0	<ul> <li>b. Non-Monitor equipment mailfunctions</li> </ul>
CMS Performance Summary 1. CMS Downtime in reporting period due to:	0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
CMS Performance Summary		<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
		CMS Performance Summary

orting period	There were no periods of excess emissions during this reporting period	There were no p				
Corrective Action	Cause of Excess E	Pollutant Emissions	Pollutant	Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details					

			CMS Downtime Details	time Details
Start Date & Time	End Date & Time	Duration of Monitor  Downtime (hours)	Cause of Monitor Downtime	Corrective Action
			There were no periods of down	There were no periods of downtime during this reporting period.
		0.0		
		0,0		
		0.0		
		0.0		
		0.0		
		0.0		
		0.0		

Company Address: Company Name: Reporting Period Dates: Hibbing MN 4950 Hwy 5 North Hibbing Taconite Company April 1, 2018 - June 30, 2018

Process Unit Identification: Process Unit Description: EU021 SV028 Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Total Source Operating Days in Reporting Period: Emission Limitation: Total Source Operating Time in Reporting Period: 75 days Ņ 1,737 hours

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number:
Date of Latest CMS Certification or Audit SO2 Teledyne Monitor Labs T100H 119 4/25/2018

Analyzer Analyte:

Description of changes in CEMS, processes, or controls since last reporting period: ANA

		4750000000
<ol><li>Total CMS Downtime (%)</li></ol>	missions (%) 0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
2. Total CMS Downtime (hours)	missions (days) 0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
e, Unknown causes	0.0	e, Unknown causes
d. Other known causes	0.0	d. Other known causes
<ul> <li>c. Quality assurance calibration</li> </ul>	0.0	c. Pracess problems
<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>	oblems 0.0	<ul> <li>b. Control equipment problems</li> </ul>
a. Monitor equipment malfunctions	0.0	<ul> <li>a. Startup/Shutdown</li> </ul>
<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	1. Duration of excess emissions in reporting period due to:	1. Duration of excess emiss
CMS Performance Summary	Excess Emissions Summary	Ex

0.0

rio popod	There were no periods of specimen division of the period	Thomas man				
Corrective Action	of Cause of Excess Emissions	Pollutant Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
THE PROPERTY OF THE PROPERTY O	Excess Emissions Details					
0.00%	3. Total CMS Downtime (%)	3. Total CN	%	0.00%	emissions (%)	3. Total duration of excess emissions (%

There were no periods of excess emissions during this reporting period

ź		_	-1		_	_	_		······································	
									Start Date & Time	
									End Date & Time	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Duration of Monitor Downtime (hours)	
								There were no periods of down	Cause of Monitor Downtime	CMS Downtime Details
								There were no periods of downtime during this reporting period.		time Details
					The second secon	www.middiplore.pupip	L-MANDARYTTI	T. II. Albanda	Corrective Action	
							- Accountance of the Contract			

Company Address: Company Name: Reporting Period Dates: 4950 Hwy 5 North April 1, 2018 - June 30, 2018 Hibbing Taconite Company Häbbing MN

Process Unit Identification: EU021 SV028

Process Unit Description: Pellet Indurating Furnace Line No. 2; straight grate indurating furnace.

Analyzer Manufacturer: Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Analyzer Serial Number: Analyzer Manufacturer Model No.: Analyzer Analyte: Emission Limitation: Stack Flow Sick Maihak N/A 75 days 1,737 hours

11318678/ 11318673 FLSE 100-H K178 35HSHS

Date of Latest CMS Certification or Audit: 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period:

N/A

3. Total duration of excess emissions (%) Total duration of excess emissions (days) 1. Duration of excess emissions in reporting period due to: a. Startup/Shutdown e. Unknown causes d. Other known causes c. Process problems b. Control equipment problems Excess Emissions Summary 0.0 0.0 0.0

0.00%	3. Total CMS Downtime (%)
0,0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

ting period	There were no periods of excess emissions during this reporting period	There were no po				
Corrective Action	Cause of Excess Emissions	ress Pollutant Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time E
	Excess Emissions Details	Excess		No.		

г	_		-	1	Π	Π	Г	г -	
				· · · · · · · · · · · · · · · · · · ·				Start Date & Time	
								End Date & Time	
0.0	0.0	0.0	0.0	0.0	0.0	0,0		Duration of Monitor  Downtime (hours)	
							There were no periods of down	Cause of Monitor Downtime	CMS Down
							There were no periods of downtime during this reporting period.	Corrective Action	CMS Downtime Details

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN
EU022

Process Unit Description: Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: NUX
Analyzer Analyte: NUX
Analyzer Analyte: See Individual Stacks
Analyzer Manufacturer Model No.: See Individual Stacks

Analyzor Manufacturer Model No.: See Individual Stacks
Analyzer Serial Number: See Individual Stacks
Date of Latest CMS Certification or Audit: See Individual Stacks

Description of changes in CEMS, processes, or See Individual Stacks controls since last reporting period:

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

There were no periods of excess emissions during this reporting period	Start Date & Time	Excess Emissions Details
is reporting period	Corrective Action	AND THE RESIDENCE OF THE PARTY

1	П		1							
									Start Date & Time	
									End Date & Time	
	0,00	0.00	0.00	0.00	0.00	0.00	0,00		Duration of Monitor Downtime (hours)	
								See Indiv	Cause of Monitor Downtime	CMS Dow
								See Individual Stacks	Corrective Action	CMS Downtime Details

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN

Process Unit Identification: EU022 SV029

Process Unit Description: Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: N/A

Emission Limitation:

Analyzer Analyze:

Analyzer Manufacturer:

Analyzer Manufacturer:

Analyzer Manufacturer Model No.:

T200M

Analyzer Serial Number:

213

Description of changes in CEMS, processes, or controls since last reporting period:

Date of Latest CMS Certification or Audit:

4/24/2018

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0,0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

Excess Emissions Details

_	Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Excess Emissions	s Emissions	Corrective Action
_					There were no p	There were no periods of excess emissions during this reporting period	sions during this repor	ing period
7								
_						CMS Downtime Details	e Details	
_	Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Car	Cause of Monitor Downtime	wntime		Corrective Action
					There were no p	There were no periods of monitor downtime during this reporting period	itime during this repor	ting period
_			0.0					
_			0.0					
-			0.0				***************************************	
			0.0					
_	To the second se		0.0		***************************************			
_			0.0					

Process Unit Description: Process Unit Identification: Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North EU022 SV029 Hibbing MN

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Serial Number: Analyzer Manufacturer Model No.: Analyzer Manufacturer: Analyzer Analyte: 1,750 hours 76 days N/A SO2 129 Teledyne Monitor Labs T100H

Description of changes in CEMS, processes, or controls since last reporting period: N/A

Date of Latest CMS Certification or Audit.

4/25/2018

<ol><li>iotal duration of excess emissions (%)</li></ol>
<ol><li>Total duration of excess emissions (days)</li></ol>
e. Unknown causes
d. Other known causes
<ul> <li>c. Process problems</li> </ul>
<ul> <li>b. Control equipment problems</li> </ul>
a. Startup/Shutdown
<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
Excess Emissions Summary

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

•			CMS Dowr	CMS Downtime Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
Z			There were no periods of monitor of	There were no periods of monitor downtime during this reporting period
		0.0		
		0,0		
		0.0		
		0.0		
		0.0		
		0.0		
		0.0	All Market Bloom	

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN

Company Address: Hibbing MN
Process Unit Identification: EU022 SV029

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: N/A

Process Unit Description:

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Analyzer Analyte:

Stack Flow

Analyzer Manufacturer: Sick Maihak
Analyzer Manufacturer Model No.: FLSE 100-H K178 35HSHS
Analyzer Serial Number: 11318676/ f1318683
Date of Latest CMS Certification or Audit: 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary

1. Duration of excess emissions in reporting period due to:

a. Startup/Shutdown

b. Control equipment problems

c. Process problems

d. Other known causes

e. Unknown causes

e. Unknown causes

2. Total duration of excess emissions (days)

3. Total duration of excess emissions (%)

0.00%

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment maifunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

	Those were no posted of monitor downtime during this monitor posted	Thorn more no posici				
Corrective Action	vntime	Cause of Monitor Downtime		Downtime (hours)	End Date & Time	Start Date & Time
	CMS Downtime Details		dosto	Distriction		
ng period	There were no periods of excess emissions during this reporting period	There were no perior				
Corrective Action	Cause of Excess Emissions	Politizani Emissions		Emissions (hours)	Elia Date or Title	Statt Date of Filling
	Course of Factor Factories	Magnitude of	- 3	Duration of Excess	End Data & Time	Start Data & Timo
	Excess Emissions Details					

Process Unit Identification: Company Name: Company Address: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company EU022 SV030 4950 Hwy 5 North Hibbing MN

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Process Unit Description:

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Analyte: 1,750 hours 76 days N/A NO.

Date of Latest CMS Certification or Audit: Analyzer Serial Number: Analyzer Manufacturer Model No.: Analyzer Manufacturer: T200M Teledyne Monitor Labs 4/24/2018

Description of changes in CEMS, processes, or controls since last reporting period: ΝÃ

0.00%	<ol> <li>Total duration of excess emissions (%)</li> </ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0,0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.06%	3. Total CMS Downtime (%)
1.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
1.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment mattunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

rting period	There were no periods of excess emissions during this reporting period	1		the state of the s	AND THE PROPERTY OF THE PROPER	1108
Corrective Action	Cause of Excess Emissions	Magnitude of Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
	Excess Emissions Details			A	and the same of th	

			CMS Down	CMS Downtime Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
06/29/2018 06:00	06/29/2018 06:59		Non-Monitor equipment malfunctions	Calibration and line shutdown caused invalid hour. Followed SSM plan.
		0.0		
		0.0		
		0.0		L. L. LANDERSTEIN TOTAL TO THE TOTAL
		0.0		
		0.0		The state of the s
		0.0		
		0,0		

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4950 Hwy 5 North
Hibbing MN

Process Unit Identification: EU022 SV030

Process Unit Description: Pellet Indurating Furnace Line No. 3; stratight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: N/A
Analyzer Analyte: SO2

Analyzer Analyte: SO2
Analyzer Manufacturer: Teledyne Monitor Labs
Analyzer Manufacturer Model No.: T100H
Analyzer Serfal Number: 130

Analyzer Serial Number: 130
Date of Latest CMS Certification or Audit: 4/25/2018

Description of changes in CEMS, processes, or controls since last reporting period:

Excess Emissions Summary	ry
1. Duration of excess emissions in reporting period due to	e to:
a. Startup/Shutdown	0,0
<ul> <li>b. Control equipment problems</li> </ul>	0.0
c. Process problems	0.0
d. Other known causes	0.0
e. Unknown causes	0.0
<ol><li>Total duration of excess emissions (days)</li></ol>	0.0
<ol><li>Total duration of excess emissions (%)</li></ol>	0,00%

0,06%	3. Total CMS Downtime (%)
1.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
1.0	<ul> <li>b. Non-Monitor equipment maifunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

			CMS Dow	CMS Downtime Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
06/29/2018 06:00	06/29/2018 06:59	1.0	Non-Monitor equipment maifunctions	Calibration and line shutdown caused invalid nour. Followed SSM plan,
		0.0		THE PROPERTY OF THE PROPERTY O
		0.0		
		0.0		
		0.0		
		0.0		
		0.0		
		0,0		

Reporting Period Dates:

Company Name:

Company Address:

Company Address:

Company Address:

April 1, 2018 - June 30, 2018

Hibbing Taconite Company

4860 Hwy 5 North

Hibbing MN

Process Unit Identification: EU022 SV030

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Process Unit Description:

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: N/A
Analyzer Analyte: Stack Flow

Analyzer Analyte: Stack Flow Stack Flow Analyzer Manufacturer: Sick Maihak Sick Maihak Analyzer Manufacturer Model No.: FLSE 100-H K178 35HSHS Analyzer Serial Number: 11318682 11318681 11318682 11318681 Pate of Latest CMS Certification or Audit 7/27/2017

Description of changes in CEMS, processes, or controls since last reporting period:

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant

Magnitude of Emissions

There were no periods of excess emissions during this reporting period

Excess Emissions Details
Cause of Excess Emissions

Corrective Action

	3 Total CMS Downtime (%)
0.0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

	Start Date & Time							
	Time End Date & Time							
	Duration of Monitor Downtime (hours)		0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
	Cause of Mo	There wen			The state of the s	Consider the second sec	Total services	
CMS Dow	Cause of Monitor Downtime	There were no periods of monitor downtime during this reporting period						
CMS Downtime Details		downtime during this r			ALL CALLETTE			
		eporting period		***************************************	Addition of the state of the st	A STATE OF THE STA	44	
	Corrective Action							
	e Action							
200000								

Company Address: Company Name: Reporting Period Dates: April 1, 2018 - June 30, 2018 Hibbing Taconite Company 4950 Hwy 5 North Hibbing MN

Process Unit Identification: EU022 SV031

Process Unit Description: Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: Total Source Operating Days in Reporting Period: Emission Limitation: Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number: Analyzer Analyte: 1,750 hours 76 days N/A T200M NOX Teledyne Monitor Labs

Date of Latest CMS Certification or Audit: 214 4/24/2018

Description of changes in CEMS, processes, or controls since last reporting period: N/A

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e, Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0,0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0,0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

rting period	There were no periods of excess emissions during this reporting period	There were no				
Collective Action	Cause of Excess clinisalons	rs) Follutari Emissions	Pollucarie	Emissions (hours)	THE DAM & JUNE	Start Date of Title
One of the second secon		Magnitude of	Dall dank	Duration of Excess	End Date & Time	Start Date & Time
	Excess Emissions Details					

Start Date & Time	End Date & Time	Duration of Monitor	Cause of Monitor Downtime	
Stait Date of 111196	Ella Date of Hitle	Downtime (hours)	Cause of Monttor Downtime	Соптеснуе Астиол
			There were no periods of monitor d	There were no periods of monitor downtime during this reporting period
		0.0		
		0.0		
		0.0		
		0.0		The state of the s
		0.0		
		0.0		

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4850 Hwy 5 North
Hibbing MN
Process Unit Identification: EU022 SV031

Process Unit Description: Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 7,750 hours

Total Source Operating Days in Reporting Period: 76 days

Emission Limitation: NA
Analyzer Analyte: 502
Analyzer Analyte: Teledyne Monitor Labs
Analyzer Manufacturer. Model No.: 7100H
Analyzer Serial Number: 132
Date of Latest CMS Certification or Audit: 4/25/2018

Description of changes in CEMS, processes, or N/A controls since last reporting period:

0,00%	3. Total duration of excess emissions (%)
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

There were no periods of excess emissions during this reporting period	Start Date & Time	Excess Emissions Details
	tive Action	

			CIRC COM	CMS Downting Details
Start Date & Time	End Date & Time	Duration of Monitor Downtime (hours)	Cause of Monitor Downtime	Corrective Action
			There were no periods of monitor of	There were no periods of monitor downtime during this reporting period
		0.0		
		0.0		
		0,0		
		0.0		
		0.0		
		0.0		
		0.0		

Reporting Period Dates: Company Address: Company Name: April 1, 2018 - June 30, 2018 Hibbing Taconite Company Hibbing MN 4950 Hwy 5 North

Process Unit Description: Process Unit Identification: EU022 SV031 Pellet indurating Furnace Line No. 3; straight grate indurating furnace.

Analyzer Analyte: Emission Limitation: Total Source Operating Time in Reporting Period:
Total Source Operating Days in Reporting Period: 76 days 1,750 hours

Analyzer Manufacturer Model No.: Analyzer Serial Number. Stack Flow Sick Maihak FLSE 100-H K178 35HSHS 11318670/ 11318677 7/27/2017

Date of Latest CMS Certification or Audit:

Analyzer Manufacturer:

Description of changes in CEMS, processes, or controls since last reporting period: ΝŅ

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e, Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

Excess Emissions Details

CMS Performance Summary  1. CMS Downtime in reporting period due to:  a. Monitor equipment malfunctions b. Non-Monitor equipment malfunctions c. Quality assurance calibration d. Other known causes e. Unknown causes 0.0 2. Total CMS Downtime (hours) 0.0	0.00%	3. Total CMS Downtime (%)
iummary	0.0	2. Total CMS Downtime (hours)
iummarys	0.0	e. Unknown causes
iummary	0.0	d. Other known causes
ummary	0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
ummary	0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
CMS Performance Summary  1. CMS Downtime in reporting period due to:	0.0	<ul> <li>a. Monitor equipment malfunctions</li> </ul>
CMS Performance Summary		<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
		CMS Performance Summary

	Start Date & Time	End Date & Time	Duration of Excess Emissions (hours)	Pollutant	Magnitude of Emissions	Cause of Exc	Cause of Excess Emissions	Corrective Action
					There were no peri	iods of excess emis	There were no periods of excess emissions during this reporting period	ng períod
								THE PARTY OF THE P
						CMS Downtime Details	ne Details	
	Start Date & Time	End Date & Time	Duration of Monitor  Downtime (hours)	Car	Cause of Monitor Downtime	wntime		Corrective Action
					There were no peri	lods of manitor dow	There were no periods of manitor downtime during this reporting period	ng period
			0.0					
			0.0					
_			0,0					

0.0 0.0

Process Unit Identification: Company Address: Company Name: Reporting Period Dates: 4950 Hwy 5 North EU022 SV032 **Hibbing Taconite Company** April 1, 2018 - June 30, 2018 Hibbing MN

Process Unit Description: Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Analyzer Manufacturer:
Analyzer Manufacturer Model No.:
Analyzer Serial Number: Analyzer Analyte: Emission Limitation: Total Source Operating Days in Reporting Period: Total Source Operating Time in Reporting Period: NOX Teledyne Monitor Labs T200M 76 days 1,750 hours 195 N/A

Date of Latest CMS Certification or Audit. 4/24/2018

Description of changes in CEMS, processes, or controls since last reporting period: N/A

w L	2 1						1. [	
<ol><li>Total duration of excess emissions (%)</li></ol>	<ol><li>Total duration of excess emissions (days)</li></ol>	e. Unknown causes	d. Other known causes	c. Process problems	b. Control equipment problems	a. Startup/Shutdown	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>	Excess Emissions Summary
0.00%	0,0	0.0	0.0	0.0	0.0	0.0		
<ol><li>Total CMS Downtime (%)</li></ol>	<ol><li>Total CMS Downtime (hours)</li></ol>	e. Unknown causes	d. Other known causes	c. Quality assurance calibration	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>	a. Monitor equipment malfunctions	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	CMS Performance Summa

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant

Magnitude of Emissions

There were no periods of excess emissions during this reporting period Cause of Excess Emissions Excess Emissions Details

Corrective Action

0.00%	Total CMS Downtime (%)
0.0	<ol><li>Total CMS Downtime (hours)</li></ol>
0.0	e. Unknown causes
0,0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	a. Monitor equipment malfunctions
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

	the feet of the fe	0,0		
The state of the s		0.0		
U-LA VANDA PROPRIESTO I	i branching and a service of	0.0		
1 11 11 1 11 11 11 11 11 11 11 11 11 11		0.0		
		0.0		
isaadiinidammaturi		0,0		
· AAAAAATII TITTIT TI	0.00	0.0		
There were no periods of monitor downtime during this reporting period	There were no periods of monitor d			
Corrective Action	Cause of Monitor Downtime	Duration of Monitor  Downtime (hours)	End Date & Time	Start Date & Time
ime Details	CMS Downtime Details			
The amplitude of the control of the				

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
4550 Hwy 5 North
Hibbing MN

Process Unit Identification: EU022 SV032

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Total Source Operating Time in Reporting Period: 1,750 hours

Total Source Operating Days in Reporting Period: 76 days

Emission Limitation: NJA

Process Unit Description:

Analyzer Manufacturer: Teledyne Monitor Labs
Analyzer Manufacturer Model No.: T100H
Analyzer Serial Number: 131
Date of Latest CMS Certification or Audit: 4/25/2018

Analyzer Analyte:

S02

Description of changes in CEMS, processes, or controls since last reporting period:

	Excess Emissions Summary	
_	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>	
	a, Startup/Shutdown	0.0
	<ul> <li>b. Control equipment problems</li> </ul>	0.0
	c. Process problems	0.0
	d. Other known causes	0.0
	e. Unknown causes	0.0
Ņ	<ol><li>Total duration of excess emissions (days)</li></ol>	0.0
ω	<ol><li>Total duration of excess emissions (%)</li></ol>	0.00%

	CMS Performance Summary	Ļ
_	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>	
	a. Monitor equipment malfunctions	0.0
	b. Non-Monitor equipment malfunctions	0.0
	c. Quality assurance calibration 0	9,0
	d, Other known causes	0.0
	e. Unknown causes 0	6
2, 7	2. Total CMS Downtime (hours) 0	00
3.	3. Total CMS Downtime (%) 0.00%	<u> </u>

uring this reporting period	There were no periods of excess emissions during this reporting period	There were no				
sions Corrective Action	Cause of Excess Emissions	tant Emissions	Pollutant	Duration of Excess Emissions (hours)	End Date & Time	Start Date & Time
ails	Excess Emissions Details					

				CMS Down	CMS Downtime Details
	Start Date & Time	End Date & Time	Duration of Monitor  Downtime (hours)	Cause of Monitor Downtime	Corrective Action
	,			There were no periods of monitor d	There were no periods of monitor downtime during this reporting period
			0.0		
			0.0		
			0.0		
			0,0		
			0,0		
			0.0		
_			0.0		

Reporting Period Dates: April 1, 2018 - June 30, 2018
Company Name: Hibbing Taconite Company
Company Address: 4850 Hwy 5 North
Hibbing MN

Process Unit Identification: EU022 SV032

Pellet Indurating Furnace Line No. 3; straight grate indurating furnace.

Process Unit Description:

Total Source Operating Time in Reporting Period: 1,750 hours
Total Source Operating Days in Reporting Period: 76 days
Emission Limitation: NIA

Analyzer Analyle: Stack Flow
Analyzer Manufacturer: Sick Maihak
Analyzer Manufacturer Model No.: FLSE 100-H K178 35HSHS
Analyzer Sorial Number: 11318680 11318671
Date of Latest CMS Certification or Audit: 7/27/2017

IE OI Latest Cimo Cermination of August

Description of changes in CEMS, processes, or N/A controls since last reporting period:

0.00%	<ol><li>Total duration of excess emissions (%)</li></ol>
0.0	<ol><li>Total duration of excess emissions (days)</li></ol>
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	c. Process problems
0.0	<ul> <li>b. Control equipment problems</li> </ul>
0.0	a. Startup/Shutdown
	<ol> <li>Duration of excess emissions in reporting period due to:</li> </ol>
	Excess Emissions Summary

Start Date & Time

End Date & Time

Duration of Excess Emissions (hours)

Pollutant Magnitude of Emissions

There were no periods of excess emissions during this reporting period

Excess Emissions Details
Cause of Excess Emissions

Carrective Action

0.00%	3. Total CMS Downtime (%)
0.0	2. Total CMS Downtime (hours)
0.0	e. Unknown causes
0.0	d. Other known causes
0.0	<ul> <li>c. Quality assurance calibration</li> </ul>
0.0	<ul> <li>b. Non-Monitor equipment malfunctions</li> </ul>
0.0	<ol> <li>Monitor equipment malfunctions</li> </ol>
	<ol> <li>CMS Downtime in reporting period due to:</li> </ol>
	CMS Performance Summary

								Start Date & Time End Date & Time	NACHE DE LA CONTRACTOR DE
0,0	0.0	0.0	0.0	0.0	0.0	0.0		Time Duration of Monitor Downtime (hours)	
							There were no periods of monito	Cause of Monitor Downtime	CMS Do
							There were no periods of monitor downtime during this reporting period		CMS Downtime Details
								Corrective Action	

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